

# Modernize & Extend Business-Critical Applications with **NGINX Plus**

NGINX Plus is well known and widely used by banking, insurance, asset management, brokerage, fintech, and other financial services companies. They rely on NGINX to extend the functionality of existing monolithic applications and to deliver outstanding customer experiences. Customers use NGINX Plus to maintain and extend their competitive advantage as they satisfy customer expectations for fast and secure services, delivered reliably across all channels and devices.

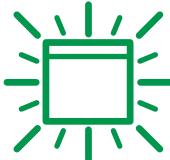
NGINX Plus combines the features you rely on – a fast and reliable web server and reverse proxy server, content caching, advanced load balancing, a web application firewall (WAF), microservices support, and rich application monitoring and management capabilities – into a software package that helps deliver beautiful application experiences that can scale securely and reliably.

*NGINX Plus, running on industry-standard, on-premises or cloud infrastructure, enables financial services companies to implement advanced, flexible load balancing and to gradually move toward a microservices architecture pattern for business-critical applications.*

# Why Are Financial Services Enterprises Moving to NGINX Plus?

As digital transformation strategies coalesce into reality, NGINX Plus helps with 5 typical use cases: application modernization, cloud adoption, moving to microservices, replacing expensive hardware-based solutions, and upgrading from Apache.

## Application Modernization



A **giant US retail bank** with over \$2 trillion in assets, headquartered in California, is migrating from Oracle iPlanet Web Server to a modern technology stack powered by NGINX:

- The bank wanted future-proof application architecture that is easier to scale and manage. NGINX Plus runs on industry standard hardware.
- They also wanted faster deployment, more developer agility, and better control over computing resources, as provided by NGINX Plus.
- A key requirement was more resilient defense against cyberattacks on origin and edge servers. NGINX Plus WAF and rate limiting capabilities boost security.

One of the **top 3 banks in the US**, headquartered in North Carolina, is building a modern integrated platform for trading, position management, pricing, and risk management:

- Juggling several legacy monolithic applications and modern containerized environments, they needed a toolset to bridge the gap. NGINX Plus is easily portable, and runs in many types of environments.
- They needed a single supported solution for reverse proxy, authentication, requesting routing, and API gateway services. NGINX Plus was the most reliable, easy-to-deploy solution.
- The bank extended a monolithic application with new mobile apps for better cross-device customer experiences. They used NGINX Plus with Layer 7 routing to reverse proxy traffic and direct it between the legacy application and new microservices.

## Cloud Adoption



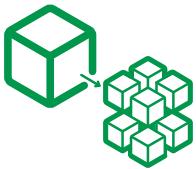
A **top-4 British bank and financial services company**, headquartered in London, is implementing a new multilayered cloud strategy, with NGINX Plus as part of the stack:

- The company runs 500+ applications on cloud platforms in an agile development environment. NGINX Plus enables flexibility and agility.
- They need to provide common capabilities across all cloud service providers, so portability is a key requirement. NGINX Plus configurations are easily portable.
- The goal of 'encryption everywhere' is enabled by implementing microservices with the Fabric Model.
- The bank must mask customer identities and anonymize log files for compliance, a feature NGINX Plus provides.

One of the **top 5 property and casualty insurers in the US**, headquartered in Massachusetts, is migrating some on-premises applications to AWS:

- Initially using AWS ELB for load balancing, they quickly discovered they needed more flexibility and fine-grained control over configurations. They love nginx for its ease of use.
- HAProxy could not integrate with the service-discovery tools the company wanted to use, and was quickly dropped in favor of NGINX Plus.
- They needed a lightweight load-balancing solution across multiple customer-facing projects. NGINX Plus is less than 5 MB in size, with minimal and stable CPU and RAM requirements, and configurations are easily portable.

## Moving to Microservices



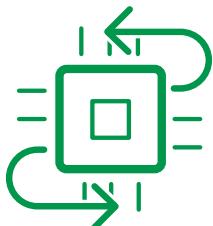
A **top-4 Australian bank and financial services provider**, headquartered in Sydney, is building a new digital platform for better customer experience and for a modernized and streamlined software development process:

- Starting with a single microservices project, they evaluated NGINX Plus as an integral part of the application architecture.
- The bank needed a reverse proxy for SSL termination and chose NGINX Plus. NGINX Plus performs high-speed encryption using modern standards such as PFS and dual stack RSA/ECC, without the need for custom hardware.
- They are actively looking to move to NGINX Plus as an API gateway, as Axway – their existing solution – is seen as heavy, expensive, and inflexible.

One of the **top 3 consumer credit reporting agencies in the US**, headquartered in Georgia, wants to build a fabric of microservices on an internal network for multiple applications:

- They had a home-grown solution that was facing performance and management issues, and wanted a supported, production-ready enterprise solution. NGINX Plus offers 24/7 support and NGINX is used by more than 60% of the 10,000 busiest sites in the world.
- For credit card services on a PCI-protected domain, NGINX Plus is used as a reverse proxy to route traffic.
- They manage multiple clusters of NGINX Plus instances for blue-green deployments, reducing the risk of downtime.

## Replacing Expensive Hardware-Based Solutions



A **British multinational banking and financial services company** with over 1200 branches, headquartered in London, is moving to a flexible software-based solution:

- They have a large set of F5 hardware load balancers for routing traffic, and are enamored with NGINX Plus as a more cost-effective load-balancing solution.
- Changes to the F5 load balancers require coordination with multiple teams and cause delays. With NGINX Plus, development teams are more agile and have more flexibility.
- They also are also looking to deploy NGINX Plus as a reverse proxy, caching server, and API gateway.

One of the **top banks in the US** with over \$370 billion in assets, headquartered in Pennsylvania, is actively splitting up several monolithic applications:

- They are looking to replace their expensive, cumbersome F5 load balancers with NGINX Plus for quicker deployments and better control.
- NGINX Plus is a software-based solution, which enables them to reduce their dependence on data centers and build out a public/private hybrid cloud with more robust security.
- Developer agility and speed to deployment are key advantages of NGINX Plus over the F5 load balancers.

## Upgrading from Apache



A **giant US servicing company for the financial industry**, with revenue exceeding \$2.8 billion, headquartered in New York, replaced Apache and other open source tools with NGINX Plus:

- Apache had hit scaling and performance issues, and they wanted a supported web server that is future-proof for a microservices environment.
- NGINX Plus provides multiple services – high availability load balancing, caching, and scaling Node.js® servers.
- For a pilot blockchain project, they selected Node.js running on NGINX Plus for performance and ease of scaling.

A **multibillion dollar, multinational financial services corporation founded in 1850**, headquartered in New York, migrated a larger server farm:

- Running Apache and HAProxy, the huge server farm had hit significant performance and scale issues. They moved to NGINX Plus for a supported, high-performance solution.
- Using advanced proxy and load-balancing features of NGINX Plus enabled the enterprise to create a global infrastructure layer for internal applications.
- NGINX Plus is being used here in conjunction with hardware load balancers.



**Content cache**



**Load balancer**



**Monitoring & management**



**Security controls**



**Web server**

## About NGINX

NGINX is the heart of the modern web – helping the world's most innovative companies deliver their sites and applications with performance, reliability, security, and scale. The company offers an award-winning, comprehensive application delivery platform in use on more than 300 million sites worldwide.

Companies around the world rely on NGINX to ensure flawless digital experiences through features such as advanced load balancing, web and mobile acceleration, security controls, application monitoring, and management. More than half of the Internet's busiest websites rely on NGINX, including Airbnb, Box, Instagram, Netflix, Pinterest, SoundCloud, and Zappos. The company is headquartered in San Francisco, with its EMEA headquarters in Cork, Ireland, and additional offices in the US and Europe.

Learn more at [nginx.com](https://nginx.com)

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**NGINX+**